

10/3/02

To: QUE LE

Re: 10/039,336 US 5,981,940

Attached are search results.

**No U. S. litigation was found in searches of
Lexis-Nexis and Questel-Orbit databases.**

**If more searching or explanation is needed, please
let me know.**

**Thanks,
Darcy Bates
STIC-EIC2800
306-5419
CP4-9C 18**

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Terms: **patno=5981940** ([Edit Search](#))

08929539 () 5981940 November 9, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
5981940

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November 9, 1999

Angle measuring system with a clampable shaft

REISSUE: October 29, 2001 - Reissue Application filed Ex. Gp.: 2878; Re. S.N.
10/039,336 April 23, 2002

INVENTOR: Setbacken, Robert, Santa Barbara, CA; Goeden, Richard Michael, Santa
Barbara, CA

APPL-NO: 08929539 ()

FILED-DATE: September 15, 1997

GRANTED-DATE: November 9, 1999

ASSIGNEE-AT-ISSUE: Renco Encoders, Inc., Goleta, CA

ASSIGNEE-AFTER-ISSUE: March 30, 1998 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE
DOCUMENT FOR DETAILS)., RENCO ENCODERS, INC. 26 COROMAR DRIVE GOLETA,
CALIFORNIA 93117,, Reel and Frame Number: 009080/0281

LEGAL-REP: Brinks Hofer Gilson & Lione

PUB-TYPE: November 9, 1999 - Utility Patent having no previously published pre-grant
publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 250#23113

US-ADDL-CL: 250#23118

SEARCH-FLD: 250##23113 , 250##23118 , 250##239 , 356##375

IPC-MAIN-CL: G 01D005#34

PRIM-EXMR: Le, Que T.

REF-CITED:

4031441, 1977, United States (US)

4652748, 1987, United States (US)

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patno=5981940

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10/3/02

US 5,981,940

10/039336

Selected file: PLUSPAT

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Last update of file: 2002/10/02 (YYYY/MM/DD) 2002-39/UP (basic update)

Search statement 1

?us5981940/pn

** SS 1: Results 1

Search statement 2

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US5981940 A 19991109 [US5981940]

TI - (A) Angle measuring system with a clampable shaft

PA - (A) RENCO ENCODERS INC (US)

IN - (A) SETBACKEN ROBERT (US); GOEDEN RICHARD MICHAEL (US)

AP - US92953997 19970915 [1997US-0929539]

PR - US92953997 19970915 [1997US-0929539]

IC - (A) G01D-005/34

EC - G01D-005/347C2

PCL - ORIGINAL (O) : 250231130; CROSS-REFERENCE (X) : 250231180

DT - Corresponding document

CT - US4031441; US4652748; DE3038005 A1; DE89151097

STG - (A) United States patent

AB - The angular measuring system has a hollow pick-up shaft whose end is slitted, and the slitted area has an interior thread. A screw with an exterior thread is provided for clamping the pick-up shaft in a bore of a driveshaft. The screw is turned into the pick-up shaft until it is axially supported on a detent. By further turning of the screw the thread flanks of the interior thread and of the exterior thread cause the slit end of the pick-up shaft to be spread open radially.

1/1 LGST - (C) LEGSTAT

PN - US 5981940 [US5981940]

AP - US 929539/97 19970915 [1997US-0929539]

DT - US-P

ACT - 19970915 US/AE-A

APPLICATION DATA (PATENT)

{US 929539/97 19970915 [1997US-0929539]}

- 19991109 US/A

PATENT

- 20020423 US/RF

REISSUE APPLICATION FILED

20011029

UP - 2002-18

1/1 CRXX - (C) CLAIMS/RRX

AN - 3232930

PN - 5,981,940 A 19991109 [US5981940]

PA - Renco Encoders Inc

10/3/02

US 5,981,940

10/039336

PT - E (Electrical)
ACT - 20011029 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020423
REISSUE REQUEST NUMBER: 10/039336
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2878

Reissue Patent Number:

UP - 2002-17
UACT- 2002-04-23

1/1 PAST - (C) Thomson Derwent
AN - 200217-001780
PN - 5981940 A [US5981940]
DT - A (UTILITY)
OG - 2002-04-23
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

Search statement 2

?file inpadoc

Selected file: INPADOC

You are now connected to INPADOC
Covers 1968/1973 thru weekly updates (2002-38)
For information on content, ..INFO INPD.

Search statement 1

?fam us5981940/pn

1 Patent Groups
** SS 1: Results 3

Search statement 2

?famstate nonstop

1/3 INPADOC - (C) INPADOC
PN - EP 902256 A3 20020522 [EP-902256]
TI - ANGLE MEASURING DEVICE
LA - GER
IN - SETBACKEN ROBERT [US]; GOEDEN RICHARD MICHAEL [US]
PA - HEIDENHAIN GMBH DR JOHANNES [DE]
AP - EP 98113081/98-A 19980714 [1998EP-0113081]
PR - US 929539/97-A 19970915 [1997US-0929539]
IC - G01D-005/347; F16D-001/08
DS - AT* BE* CH* CY* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC* NL*
PT* SE*

10/3/02

US 5,981,940

10/039336

1/1 LEGALI - (C) LEGSTAT

PN - EP 902256 [EP-902256]

AP - EP 98113081/98 19980714 [1998EP-0113081]

DT - EP-P

ACTE- 19980714 EP/AE-A

EP-APPLICATION

{EP 98113081/98 19980714 [1998EP-0113081]}

- 19990317 EP/AK-A2 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

- 19990317 EP/AX [+]

EXTENSION OF THE EUROPEAN PATENT TO

AL;LT;LV;MK;RO;SI

- 19990317 EP/A2 [+]

PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

- 19990818 EP/RIN1

INVENTOR (CORRECTION)

SETBACKEN, ROBERT * GOEDEN, RICHARD, MICHAEL

- 20020522 EP/AK-A3 [+]

DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

- 20020522 EP/AX [+]

EXTENSION OF THE EUROPEAN PATENT TO

AL;LT;LV;MK;RO;SI

- 20020522 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

- 20020522 EP/RIC1

CLASSIFICATION (CORRECTION)

7G 01D 5/347 A, 7F 16D 1/08 B

UP - 2002-21

2/3 INPADOC - (C) INPADOC

PN - EP 902256 A2 19990317 [EP-902256]

TI - ANGLE MEASURING DEVICE

LA - GER

IN - SETBACKEN ROBERT [US]

PA - HEIDENHAIN GMBH DR JOHANNES [DE]

AP - EP 98113081/98-A 19980714 [1998EP-0113081]

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IC - G01D-005/347

DS - AT* BE* CH* CY* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC* NL*
PT* SE*

1/1 LEGALI - (C) LEGSTAT

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AP - EP 98113081/98 19980714 [1998EP-0113081]

DT - EP-P

ACTE- 19980714 EP/AE-A

EP-APPLICATION

{EP 98113081/98 19980714 [1998EP-0113081]}

- 19990317 EP/AK-A2 [+]

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- 19990317 EP/A2 [+]
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT
- 19990818 EP/RIN1
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- 20020522 EP/A3 [+]
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CLASSIFICATION (CORRECTION)
7G 01D 5/347 A, 7F 16D 1/08 B
UP - 2002-21

3/3 INPADOC - (C) INPADOC

PN - US 5981940 A 19991109 [US5981940]
TI - ANGLE MEASURING SYSTEM WITH A CLAMPABLE SHAFT
IN - SETBACKEN ROBERT [US]; GOEDEN RICHARD MICHAEL [US]
PA - RENCO ENCODERS INC [US]
AP - US 929539/97-A 19970915 [1997US-0929539]
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1/1 LEGALI - (C) LEGSTAT

PN - US 5981940 [US5981940]
AP - US 929539/97 19970915 [1997US-0929539]
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ACTE- 19970915 US/AE-A
APPLICATION DATA (PATENT)
{US 929539/97 19970915 [1997US-0929539]}
- 19991109 US/A
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- 20020423 US/RF
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20011029
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